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NOTICE OF ALLOWANCE AND FEE(S) DUE

65989 7590 04/07/2008 KING & SPALDING

1185 AVENUE OF THE AMERICAS NEW YORK, NY 10036-4003 EXAMINER
AUDET, MAURY A
ART UNIT PAPER NUMBER

1654 DATE MAILED: 04/07/2008

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTRIBUTATION NO.

 10531_533
 0425/2006
 Glynn Thomas Faircloth
 13566_105012
 1346

 TILL GO FINVENTION: NEW ANTITY MORFAL COMPOUNDS
 13566_105012
 1346

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/07/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This f appropriate. All further c indicated unless corrected maintenance fee notification	form should be used for orrespondence including below or directed oth ons.	or tran ig the l ierwise	smitting the ISSU Patent, advance or in Block 1, by (a					hould be completed where correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDED	NCE ADDRESS (Note: Use Bi	ock I for	any change of address)	Feet	s) Transmittal. Thi rs. Each additiona	is certi I papei	ficate cannot be used f	r domestic mailings of the or any other accompanying nt or formal drawing, must
KING & SPALI	OF THE AMERICA			I bo	Cer	tificat	e of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/531,533	04/25/2006			Glynn Thomas Faircloth		I3566.105012		1346
TITLE OF INVENTION:							ı	
APPLN. TYPE	SMALL ENTITY	IS:	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300	\$0		\$1740	07/07/2008
EXAMI	NER		ART UNIT	CLASS-SUBCLASS				
AUDET, M.	AURY A		I654	514-002000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address for Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/147 we 0.0-12 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED OF PLEASE NOTE: Unless an assignce is identified below, no assign recordation as set forth in 37 CFR 3. 11. Completion of this form is '			Correspondence ation form of a Customer E PRINTED ON	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively. (2) the name of a single firm thaving as a member a registered attorney or agent) and the names of up to 3 registered patent attorneys or agent. If no name is interest of the patent attorney or agent. If no name is interest, no name will be printed. THE PATENT (Print or Uppe) data will appear on the patent. If an assignee is identified below, the document has been filled for TS aubstitute for filling an assignment.				
	ite assignee category or	catego			Individual 🚨 Co	orporat	ion or other private gro	oup entity Government
4a. The following fee(s) are submitted: Issue Fee Justication Fee (No small entity discount permitted) Advance Order - # of Copies				th. Payment of Fee(s): (Pfease first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Statu	SMALL ENTITY state	s. See	37 CFR I.27.	b. Applicant is no lon				
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if req- cords of the United Sta	rired) v tes Pate	will not be accepted ant and Trademark	from anyone other than t Office.	he applicant; a regi	stered	attorney or agent; or th	ne assignee or other party in
Authorized Signature					Date			
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This collection of informat an application. Confidenti- submitting the completed this form and/or suggestio Box 1450, Alexandria, Vir Alexandria, Virginia 2231.	tion is required by 37 C ality is governed by 35 application form to the ns for reducing this bur rginia 22313-1450. DC 3-1450.	FR 1.3 U.S.C. USPT den, sh	11. The informatic 122 and 37 CFR O. Time will vary nould be sent to th SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D'THIS ADDRESS	he pub minute ommen Trader S. SEN	lic which is to file (and s to complete, including ts on the amount of timerk Office, U.S. Dep D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,533	04/25/2006	Glynn Thomas Faircloth	13566.105012 1346	
65989	590 04/07/2008		EXAMINER	
KING & SPALDING		AUDET, MAURY A		
1185 AVENUE OF THE AMERICAS NEW YORK, NY 10036-4003			ART UNIT	PAPER NUMBER
			1654	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/531,533	FAIRCLOTH ET AL	
Examiner	Art Unit	
MAURY AUDET	1654	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to RCE of 1/17/08.
- The allowed claim(s) is/are 1,18-28,30 and 31.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 1/17/08, 3/11/08
 4. ☐ Examiner's Comment Regarding Requirement for Deposit
- Examiner's Comment Regarding Requirement for Deposi
 of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

/Cecilia TSang/ Supervisor Patent Examiner, Art Unit 1654

EXAMINER'S AMENDMENT

Applicant's filing of the RCE (vacating the previous Notice of Allowance) to submit the IDS's of 1/17/08 and 3/11/08 are acknowledged. The art has been thoroughly reviewed and does not change the previous disposition of the allowability of claims as amended below. A copy of the signed/initialed 1449 is sent herewith.

The present Examiner's Amendment mirrors that of the previous Examiner's Amendment mailed 10/28/07, based on same outstanding claims, filed 6/19/07.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was approved by Michael Willis, Applicant's Representative, during a telephone conversation held on 8/30/07.

IN THE CLAIMS

18-- inserted.

In claims 1 and 18, the phrase ", prodrugs, tautomers, and solvates," has been deleted.

In claims 21-23, the phrase ", 16, 17, 18, 29, and 20" has been deleted and the phrase --or

In claims 25-26, the phrase "any one of claim 18-20" has been deleted and the phrase --claim 18-- inserted

Art Unit: 1654

In claim 26, the phrase ", 16, 17, 18, 29, and 20" has been deleted and the phrase --or 18, wherein the form of cancer is selected from the group consisting of prostate, ovarian, breast, melanoma, lung, leukemia, pancreatic, colon, cervical and hepatic--.

In claim 30, the phrase "cancer is selected from prostate cancer, breast cancer, hepatocellular carcinoma, melanoma, colorectal cancer, renal cancer, ovarian cancer, lung cancer, leukemia, epithelial cancer, pancreatic cancer, and tumors that overexpress the Her2/neu oncogene" has been deleted and the phrase —the form of cancer is selected from melanoma, colon, ovarian, lung, leukemia, and pancreatic—inserted.

Claims 16-17, 19-20, 29, and 32-33 have been cancelled without prejudice.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The prior art of record does not reasonably teach or suggest the presently claimed products and methods of making and treating certain forms of cancer therewith. Specification Examples 6-8 provide appropriate cell line data regarding the enablement of the products of the invention to be used in a method of treating the now amended forms of cancer, in claims 26 and 30.

Scheuer et al. (US 6,274,551 and 6.011,010) is deemed the closest prior art of record.

Scheuer et al. teach 5-methylhexanoic KF, while the present invention is drawn to 4methylhexanoic KF. Although appearing slight, as Applicant describes, the modification from 5to 4-methylhexanoic KF evidenced unexpected results, and for these reasons, cannot be deemed
merely an obvious modification. As described on present specification pages 6-7:

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DETAILED DESCRIPTION OF THE INVENTION

We have identified analogues of Kahalalide F that show significant improvement in activity with respect to Kahalalide F. As shown in the comparative examples, the 4-methylhexanoic KF has unexpectedly shown significant improved efficacy in *in vivo* cancer models. This is the more surprising in view of the small structural difference between 4-methylhexanoic KF and 5-methylhexanoic KF.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Conclusion

Claims 1, 18-28 and 30-31 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MAURY AUDET whose telephone number is (571)272-0960. The examiner can normally be reached on M-Th. 7AM-5:30PM (10 Hrs.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MA, 3/30/2008

/Cecilia Tsang/ Supervisory Patent Examiner, Art Unit 1654